ABSTRACT OF THE DISCLOSURE

A method for shared distributed mesh optical network restoration includes
5   defining a set of attributes for the links, which further includes globally disseminated
and locally kept attributes. The method further includes finding a SRLG-disjoint
diversely routed paths, including allocating resources by updating attributes along the
links on the backup path. The fault recovery process is started by first detecting and
propagating the fault to the tail end of the faulty path, starting from tail end node, for
10   each node along the faulty path. Recovery information is then passed to an egress port.
An OXC is configured, updating reserved resource by modifying the attributes for each
involved link. Further fault information is disseminated to the network.